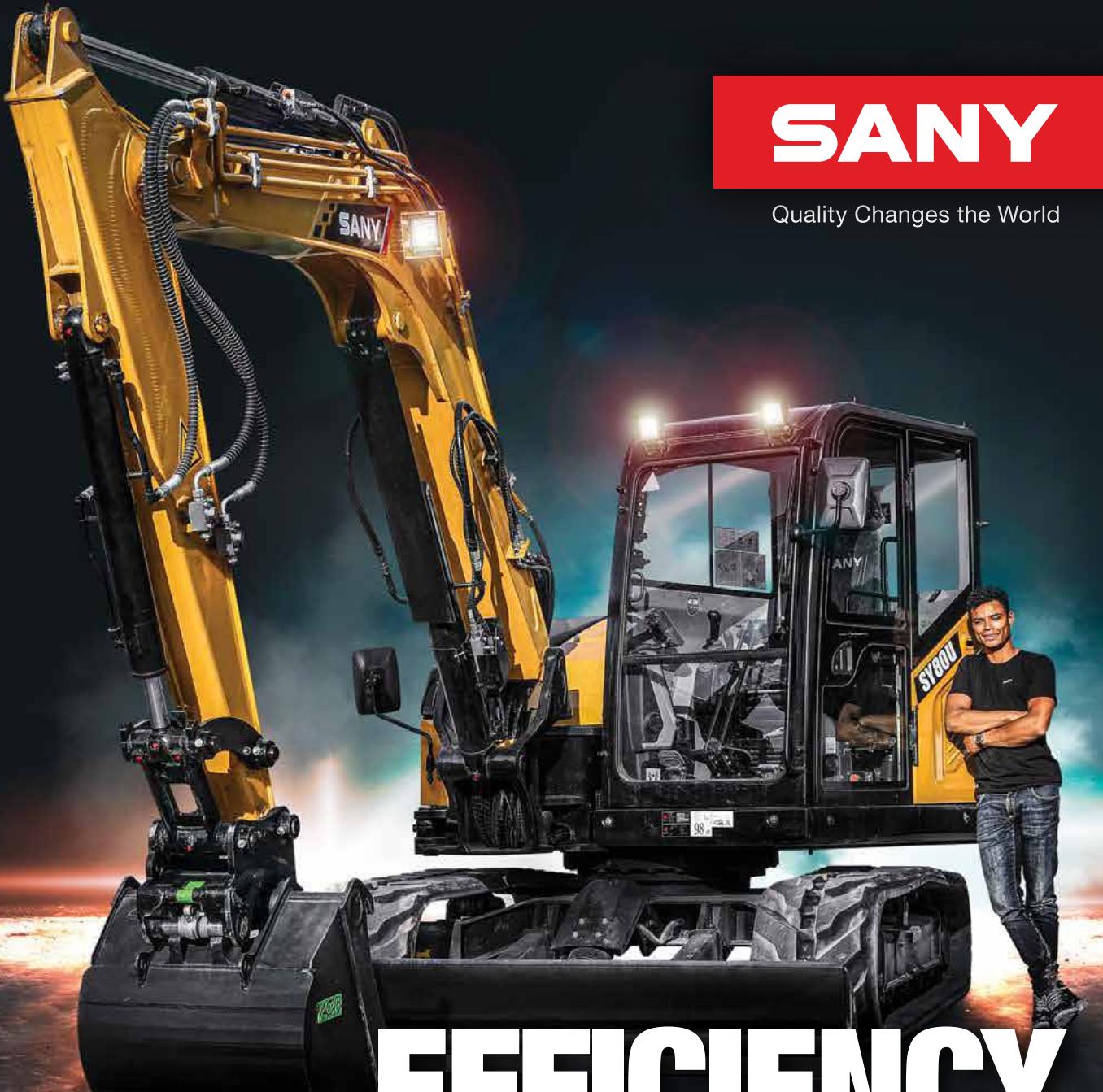


SY80U

**SANY**

Quality Changes the World



# EFFICIENCY IN THE SMALLEST OF SPACES

COMPACT. POWERFUL. COMFORTABLE.

CONSTRUCTION MACHINERY



**COMPACT EXCAVATORS**  
**SY80U**

Engine  
**YANMAR 4TNV98CT-VSY**  
rated Power  
**53.7 kW / 2100 rpm**  
Bucket capacity  
**0.28 m<sup>3</sup>**  
Operating mass  
**8800 kg**

# SANY

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 **320 000** 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.

## 320 000

EXCAVATORS SOLD IN  
**10 YEARS**

## 5–7%

TOURNOVER FOR RESEARCH  
AND DEVELOPMENT

## FIVE-YEAR WARRANTY \*

Quality Changes the World



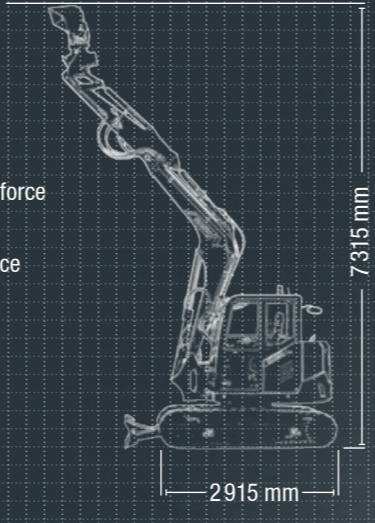
### SY80U HARD FACTS

Max. bucket digging force  
72.7 kN (ISO)

Max. arm digging force  
40.5 kN (ISO)

Swingspeed  
10 rpm

Max. travel speed  
4.5 km/h



## SY80U Pro - Next-Generation 8Ton Short Tail Excavator

The SY80U Pro represents the latest evolution in 8ton short tail excavators, designed to meet global market demands while fully complying with T4F/EU V emission standards. Engineered for precision and efficiency, it excels in urban municipal projects, road maintenance, hillside forestry paths, and other operations in tight or confined spaces.

With a focus on exceptional performance and high efficiency, the SY80U Pro also offers a range of optional configurations, allowing customisation to suit diverse international applications and specific customer requirements.



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

**QUALITY**

For the greatest loads – particularly precise robot-manufactured welded seams guarantee durability even in the toughest conditions.

**DIMENSIONS**

Safe operation in the smallest of spaces – the compact dimensions of the short-tail-swing machine allow for safe working and manoeuvring even in extremely confined places.

**USER EXPERIENCE**

Maximum comfort, maximum productivity – with its ergonomic seating position on the suspended seat and various comfort features such as air-conditioning and convenient gear changing on the blade lever, the driver's cab has been designed with optimal user comfort in mind.

**SAFETY**

Safety first – comprehensive safety features as standard – from stable cylinder covers to lockable protective hoods to standard safety valves.

**COMPONENTS**

Reliable power – the tried-and-tested YANMAR 4-cylinder diesel engine is the centre piece of the powerhouse. The powerful transmission guarantees reliable performance for all tasks, even in harsh working conditions.

**ECONOMY**

Lower consumption means greater savings – this is especially the case for fuel consumption. The automatic speed setting ensures that the short-tail-swing excavator remains economical in the long-term even when delivering maximum performance.

**DIMENSIONS**

# MINIMAL SLEWING RADIUS, MAXIMUM STABILITY

The SANY SY80U short-tail excavator delivers optimal performance in any environment. Its compact, rounded short-tail design and minimal swing radius allow the operator to focus entirely on the task at hand without worrying about the tail. This makes it ideal for working safely in tight spaces or close to obstacles – perfect for urban projects or landscaping. Despite its long digging reach and impressive dumping height, the SY80U remains exceptionally stable, ensuring safety is never compromised.

**SAFETY**

## Enhanced productivity through safety

- ⊕ Extremely compact short-tail-swing excavator
- ⊕ Brand new updated driver's cab
- ⊕ Hydraulic pipework for quick coupler attachment
- ⊕ 2 prop. control circuits on the joystick
- ⊕ LED working lights
- ⊕ Gear switching on the blade lever



## USER EXPERIENCE

# COMFORT ZONE DRIVER'S CAB

The new generation SY80U cabin has been completely redesigned to enhance operator comfort, convenience, and control. The refreshed interior features stylish air conditioning vents, left and right armrest boxes, and retractable seat belts, creating a modern and ergonomic environment. A triangular window on the right side improves front-right visibility, helping operators work safely in tight spaces. On the electrical side, the SY80U now includes a one-touch start switch with integrated throttle knob function, a USB charger, and a rear camera to meet diverse customer needs. The display has been upgraded to a 7-inch touch screen that integrates radio and air conditioning controls while supporting the switching of up to 20 different attachments, making intelligent touch operation more seamless. Additionally, the layout and wiring harness have been optimized, and dual 80Ah batteries in parallel improve cold-start performance in low-temperature environments, ensuring reliable operation in all conditions.



## ECONOMY

## Service-friendly in every regard

The new SY80U has been designed with maintenance, durability, and operational efficiency in mind. All key points for routine checks and servicing are easily accessible from the ground, with lubrication points thoughtfully grouped for quick and safe servicing. This streamlined design increases machine availability, extends service life, and ensures both operators and equipment are well-protected over the long term. The hydraulic system has also received adaptive upgrades, including a floating function for the dozer blade, an added oil drain line, and an optimized S-shaped routing between the boom and arm. This routing keeps hydraulic hoses protected from scratches and impacts while maintaining a clean, aesthetic appearance. Additionally, the SY80U comes fully prepared for a quick-change mechanism, making adaptation of the quick coupler simple, cost-effective, and efficient.



## ECONOMY

## Economical with every task

The "Auto Idle" feature keeps fuel consumption to a minimum—without ever compromising performance. The load-sensing hydraulics deliver maximum power with minimal loss, automatically adjusting flow and pressure exactly when and where it's needed.



## COMPONENTS

## Designed for the long term

The standard LED working lights not only illuminate the night as if it were day but are also built to withstand the tough conditions the SY80U faces every day.

The reliable YANMAR engine meets the latest emission standards and is discreetly integrated into the machine's tail, with all key service points easily accessible. Intelligent electronic fan control keeps noise levels low while reducing fuel consumption.

Precision machining and robot-controlled welded seams, accurate to the millimetre, enhance durability, giving track shoes, connections, bottom rollers, and other components an exceptionally long service life.



## Absolute reliability – for peace of mind!

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

\* Key component warranty



## ENGINE

Modell	YANMAR 4TNV98CT-VSY
Typ	Water-cooled, 4 cylinder, with commonrail and DPF
Exhaust emissions	Stage V
Rated power	53.7 kW / 2100 rpm
Max. torque	290 Nm / 1350 rpm
Displacement	3318 ccm
Batteries	1 x 12 V / 120 Ah

## HYDRAULIC SYSTEM

Mainpump	variable-piston-pump; Load sensing control
Max. oilflow	193.2 l/min
Travelmotor	Variable displacement axial piston motor
Swingmotor	Axial piston motor
Max. oilflow (AUX 1)	100 l/min
Max. oilflow (AUX 2)	70 l/min

## SERVICE REFILL CAPACITIES

Fuel tank	100 l
Engine coolant	12 l
Engine oil	10.2 l
Drive (per side)	1.2 l
Hydraulic system	160 l
Hydraulic oil tank	120 l

## PERFORMANCE

Swingspeed	10 rpm
Max. travel speed	High 4.5 km/h, slow 2.5 km/h
Max. travel force	70 kN
Gradeability	35°
Bucket capacity	0.28 m <sup>3</sup>
Groundpressure	0.38 kg/cm <sup>2</sup>
Bucket digging force ISO	72.7 kN
Arm digging force ISO	40.5 kN

## RELIEF VALVE SETTINGS

Implement circuit	280 bar
Swing circuit	215 bar
Travel circuit	280 bar
Pilot pressure	35 bar

## UNDER AND UPPER STRUCTURE

Boom length	3520 mm
Arm length	2050 mm
Bottomrollers	4
Toprollers	1
Rotation device	Planetary gear reducer driven by an axial piston motor, automatic hydraulic released slewing brake

## OPERATING MASS

SY80U 8800 kg

## LIFTING CAPACITIES - DOZER BLADE DOWN

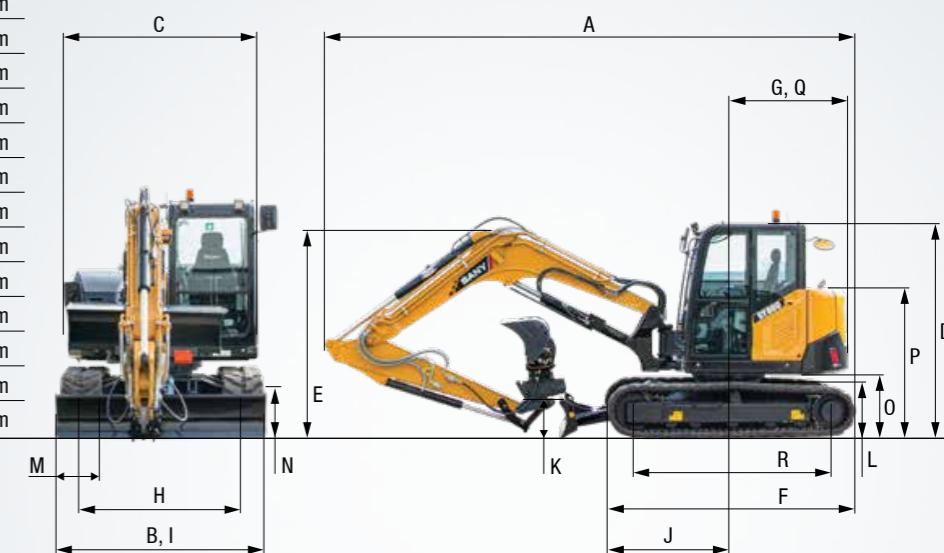
Load point height	Radius			Digging reach	
	3.0 m	4.0 m	5.0 m	Max.	mm
5.0 m kg	1960	1960	1800	1338	1710 1325 5025
4.0 m kg	2080	2080	2085	1345	1225 1055 5703
3.0 m kg	3100	3100	2540	1875	2275 1315 1585 930 6106
2.0 m kg	4745	2675	3180	1760	2570 1260 1630 865 6297
1.0 m kg	4325	2450	3745	1650	2845 1205 1750 855 6297
Ground line kg	4850	2390	4020	1590	2995 1170 1965 885 6109
-1.0 m kg	5670	2360	3950	1550	2935 1140 2370 995 5707
-2.0 m kg	4915	2375	3490	1550	2445 1150 2400 1185 5031
-3.0 m kg	3385	2450			2290 1735 3899

## LIFTING CAPACITIES - DOZER BLADE UP

Load point height	Radius			Digging reach	
	3.0 m	4.0 m	5.0 m	Max.	mm
5.0 m kg	1960	1960	1800	1338	1710 1325 5025
4.0 m kg	2080	2080	2085	1345	1225 1055 5703
3.0 m kg	3100	3100	2540	1875	1770 1315 1285 930 6106
2.0 m kg	3850	2675	2425	1760	1715 1260 1185 865 6297
1.0 m kg	3595	2450	2305	1650	1655 1205 1170 1170 885 6109
Ground line kg	3525	2390	2240	1590	1615 1170 1215 885 6109
-1.0 m kg	3490	2360	2195	1550	1585 1140 1360 995 5707
-2.0 m kg	3510	2375	1550	1550	1600 1150 1630 1185 5031
-3.0 m kg	3385	2450			2290 1735 3899

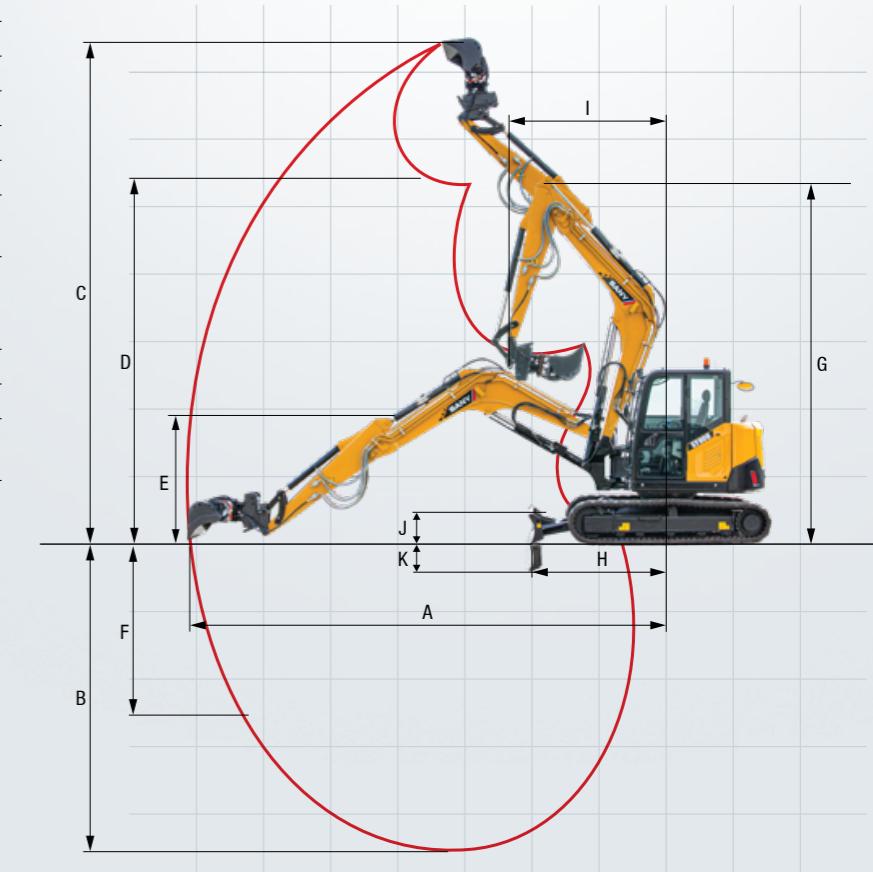
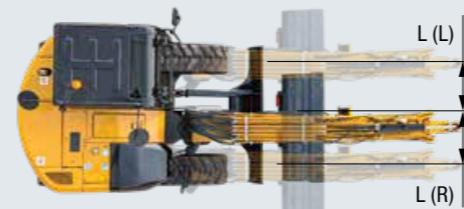
## DIMENSIONS (TRANSPORT)

A Transport length	6500 mm
B Transport width	2220 mm
C Upperstructure carriage	2150 mm
D Height over cabin/ROPS	2550 mm
E Height of Boom – transport	2220 mm
F Overall length of crawler	2915 mm
G Tail length	1480 mm
H Track gauge	1750 mm
I Undercarriage width (blade)	2200 mm
J Horizontal distance to blade	2080 mm
K Blade height	450 mm
L Track height	660 mm
M Track pads width	450 mm
N Min. ground clearance	365 mm
O Counterweight clearance	745 mm
P Engine cover height	1880 mm
Q Tail swing radius	1480 mm
R Center distance of tumblers	2315 mm



## WORKING AREA

A Max. digging reach	7290 mm
B Max. digging depth	4535 mm
C Max. digging height	7315 mm
D Max. dumping height	5430 mm
E Min. dumping height	1915 mm
F Max. vertical digging depth	2490 mm
G Overall height over arm by min. swing radius	5490 mm
H Arm head distance with work equipment retracted as far as possible	2080 mm
I Swing radius by max. boomswing (L)	4510 mm
Swing radius by max. boomswing (R)	4670 mm
Min. swing radius	2435 mm
J Max. clearance when blade up	480 mm
K Max. depth of blade down	325 mm
L Offset boom (L)	636 mm
Offset boom (R)	740 mm
Max. boom-swing angle (L)	65°
Max. boom-swing angle (R)	51°





## OPERATORS COMFORT / CABIN

Mechanical suspension seat	●
Heater	●
Air condition system	●
Bluetooth/USB/Start-stop switch/Key pad	●
Armrests (adjustable)	●
12v outlets	●
Touch screen/Controller	●
Wiper	●
AUX1 on Joystick	●
AUX 2 on Joystick	●
20 stored hydraulic settings for attachments	●

## SAFETY

Battery master switch	●
Travel Alarm	●
Warning beacon	●
Rearview Camera	●

## 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	●
Dozer blade with float function	●
Cylinder guards - boom	●

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.

## Parts supply – quick and reliable

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

## WORKING LIGHTS

Lights – front (LED)	●
Lights – boom (LED)	●

## UNDERCARRIAGE

Rubber tracks	●
Steel tracks	●
Holes/loops for fixing	●

## ENGINE

Auto idle	●
Ground level E-stop	●
DPF	●
DOC	●
Air filter	●

## HYDRAULIC SYSTEM

Swing brake	●
2 speed travel	●
Piping for additional hydraulic function AUX 1	●
Piping for additional hydraulic function AUX 2	●
Main filter	●
Hydr. Pre-pressure operating joysticks	●
Filter for pre-pressure circle	●
Pressure relief valve	●

## A SERVICE YOU CAN RELY ON

In the event of a breakdown during your warranty period, Vertu will come to your site as soon as possible to get your machine back up and running.

## National Service Representation

Our national service network partnerships provide certainty that you are supported with service and parts, wherever you are located.

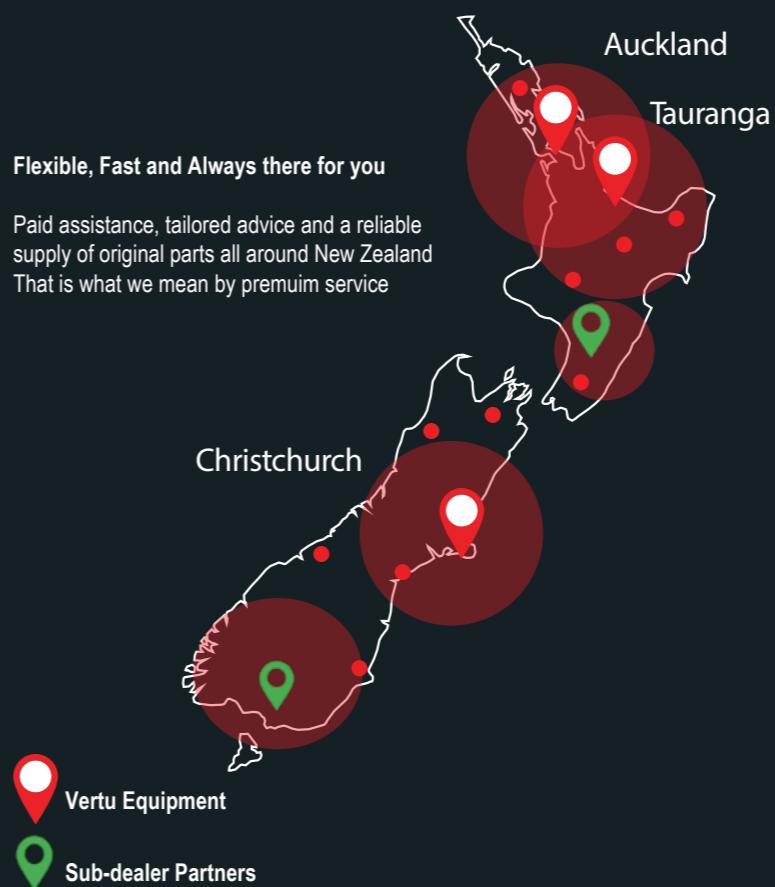
## Parts and Inventory

As the dealer of SANY excavators, roading and construction equipment Vertu holds a significant inventory of SANY Genuine and aftermarket parts and attachments, both in New Zealand and Australia to keep you going. With direct relationships locally and internationally we can source parts quickly and as a matter of priority.



## The added benefits SANY offers you:

- Fast supply thanks to SANY Oceania parts hub
- 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 technicians are always kept up-to-date so that they can face all technical challenges.



## Detailed information in black and white

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



# HIGHLIGHTS SY80U

# A TRUE WORKHORSE

The next generation of 8ton short-tail excavators designed to deliver outstanding performance, versatility, and efficiency in urban construction, road maintenance, hillside forestry, and confined-space operations. Built with operator comfort, safety, and convenience in mind, the SY80U Pro features a modern, ergonomic cabin, advanced hydraulic and electrical systems, and simplified maintenance access, ensuring reliable performance day in and day out. With intelligent controls, enhanced visibility, and adaptive upgrades based on global operator feedback, the SY80U Pro sets a new standard for productivity, durability, and ease of use in its class.



## FOR THE GREATEST LOADS

All components are designed to withstand **high stress**. The **meticulous machining**, **high-quality materials** and welded seams perfectly executed by welding robots are guarantees for this.

## IN THE SMALLEST OF SPACES

The **robust swivel bracket** is the most important aspect for all tasks. It makes the **compact manoeuvrability** of the short-tail-swing excavator possible, together with the **compact total dimensions** and the **minimal slewing radius**.

## MAINTENANCE AND SERVICE

Full concentration and **maximum safety** are the first priorities on the construction site. For this purpose, the SY80U driver's cab offers the best conditions for the machine operator – from the **comfortable driver's seat** to the **large, easily legible monitor** and the **precise joystick** with fine response characteristics.

## SAFETY FIRST

We have taken the full range of measures to minimise the risk to drivers in the cab and people on the construction site in the vicinity of the machine. This includes **optimal visibility on all sides**, as well as **LED working lights**, **safety valves** and **cylinder covers**.

## RELIABLE POWER

With the **strong YANMAR engine**, the smallest SANY compact excavator is optimally equipped even for **large tasks**.

## LESS IS MORE

The **automatic speed setting** reduces the fuel consumption, engine wear and exhaust gas emissions (Euro 5 standard). This is positively reflected in its **low fuel consumption** and exemplary **low life cycle costs**.

## TECHNICAL HIGHLIGHTS

Engine	YANMAR 4TNV98CT-VSY
Rated power	53.7 kW / 2100 rpm
Max. torque	290 Nm / 1350 rpm
Bucket digging force ISO	72.7 kN
Swingspeed	10 rpm
Mainpump	Variable-piston-pump
Max. oilflow	193.2 l/min



**„AN 8-TONNE MACHINE THAT IS STRONG, EFFICIENT AND ABSOLUTELY PRECISE IN ITS CONTROL.“**

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.



Machinery Specialists  
06 356 8459  
[www.machineryspecialists.co.nz](http://www.machineryspecialists.co.nz)  
[info@machineryspecialists.co.nz](mailto:info@machineryspecialists.co.nz)

18 Bisley Street  
Palmerston North

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